



PILLSBURY WINTHROP

1600 TYSONS BOULEVARD MCLEAN, VA 22102 703-905.2000 F: 703.905.2500

FACSIMILE

Total Pages (including cover). 2

LONDON	Date:	October 2, 2002	Must Be Sent By:
LOS ANGELES	To:	Examiner P.N. Huynh	Fax No: 703-305-7401
NEW YORK	Company:	United States Patent & Trademark Office	Phone No: 703-308-4844
NORTHERN VIRGINIA	From:	Robert W. Hahl, Ph.D.	Phone No: 703-905-2251
ORANGE COUNTY	User No:	15008	C/M No: 011377-0263260
SACRAMENTO	Comments:		
SAN DIEGO			
SAN FRANCISCO			
SILICON VALLEY			
SINGAPORE			
STAMFORD			
SYDNEY			
TOKYO			
WASHINGTON DC			

Please deliver to Examiner Huynh

For use in the telephone interview of Application No.: 09/381,032, scheduled for Thursday, October 3, 2:00 pm.

Confidentiality Note.

The documents accompanying this facsimile transmission may contain confidential information which is legally privileged. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of any of the information contained in this transmission is strictly PROHIBITED. If you have received this transmission in error, please immediately notify us by telephone and mail the original transmission to us. Thank you

If you have not properly received this fax, please call (703) 905-2000. Thank you.

Operator

Time Sent

Batch ID:

30321834V1

- The substance detected in both the present invention and in Bergmann *et al.* is the TSH receptor auto antibody (i.e., TSHR-auto-Ab)
- The structure immobilized in the present invention is the TSH receptor (i.e., TSHR)
- The structure immobilized in Bergmann *et al.* is the antibody against the hormone (i.e., TSH-Ab)

Present Invention:

rhTSHR(imm)* = immobilized and purified recombinant human TSH Receptor, i.e.,



- First step: rhTSHR(imm)* binds to TSHR-auto-Ab (TSH receptor auto antibody)
- Second step: Any rhTSHR(imm)* not bound to TSHR-auto-Ab binds to ¹²⁵I-bTSH (labelled bovine TSH)
- The amount of TSHR-auto-Ab can be determined by subtracting bound ¹²⁵I-bTSH (which can be quantified) from total amount of rhTSHR(imm)*
- The first and second steps can be conducted simultaneously.

Bergmann *et al.*:

